

Claims:

1. A pluggable optical transceiver module comprising:
an optical fiber connecting interface connecting with an optical fiber to transmit optical signals;
an optical signal transceiver connecting with the optical fiber connecting interface to transform the optical signals into electronic signals and in a reverse transformation; and
a golden finger connecting interface connecting with the optical signal transceiver to transmit the electronic signals.
2. The pluggable optical transceiver module of claim 1, wherein the golden finger connecting interface uses the printed circuit board technology to print golden fingers on a circuit board.
3. The pluggable optical transceiver module of claim 1, wherein the optical signal transceiver comprises an optical signal transmitter.
4. The pluggable optical transceiver module of claim 3, wherein the optical signal transmitter comprises a laser diode.
5. The pluggable optical transceiver module of claim 1, wherein the optical signal transceiver comprises an optical signal receiver.
6. The pluggable optical transceiver module of claim 1, wherein the optical signal receiver comprises a photo diode.
7. The pluggable optical transceiver module of claim 1, wherein the pluggable optical transceiver module further comprises a corresponding socket.

PATENT

Attorney Docket No.: TSAI/0005

Express Mail No.: EV 335476456 US

8. The pluggable optical transceiver module of claim 7, wherein the corresponding socket includes a corresponding interface corresponding to the golden finger connecting interface.

9. The pluggable optical transceiver module of claim 1, wherein the pluggable optical transceiver module comprises a single channel bi-direction small form factor optical transceiver module.

10. A pluggable single channel bi-direction small form factor optical transceiver module comprising:

- an optical fiber connecting interface connecting with an optical fiber to transmit optical signals;

- an optical signal transmitter connecting with the optical fiber connecting interface to transform output optical signals into output electronic signals and transmit the output electronic signals to the optical fiber connecting interface;

- an optical signal receiver connecting with the optical fiber connecting interface to transform input optical signals into input electronic signals; and

- a golden finger connecting interface connecting with the optical signal transmitter and the optical signal receiver to transmit the input electronic signals and the output electronic signals.

11. The pluggable single channel bi-direction small form factor optical transceiver module of claim 10, wherein the golden finger connecting interface uses the printed circuit board technology to print golden fingers on a circuit board.

12. The pluggable single channel bi-direction small form factor optical transceiver module of claim 10, wherein the optical signal transmitter comprises a laser diode.

13. The pluggable single channel bi-direction small form factor optical transceiver module of claim 10, wherein the optical signal receiver comprises a photo diode.

14. The pluggable single channel bi-direction small form factor optical transceiver module of claim 10, wherein the pluggable single channel bi-direction small form factor optical transceiver module further comprises a corresponding socket.

15. The pluggable single channel bi-direction small form factor optical transceiver module of claim 14, wherein the corresponding socket includes a corresponding interface corresponding to the golden finger connecting interface.

16. The pluggable single channel bi-direction small form factor optical transceiver module of claim 15, wherein the corresponding socket is mounted in a an electric appliance with the pluggable single channel bi-direction small form factor optical transceiver module.

17. The pluggable single channel bi-direction small form factor optical transceiver module of claim 10, wherein the pluggable single channel bi-direction small form factor optical transceiver module is about 0.5 inch wide.